ELSEVIER

15 June 1999

Optics Communications 164 (1999) 317–321

OPTICS COMMUNICATIONS

Author index to volume 164

Ageev, L.A., see Miloslavsky, V.K. 164 (1999) 269
Ahmad, M.M., see Yeatman, E.M. 164 (1999) 19
Angel, L., M. Tebaldi and R. Henao, Phase stepping in Lau interferometry 164 (1999) 247
Artigas, D., see Torner, L. 164 (1999) 153

Baldi, P., J. Pruvot, M.P. De Micheli, G. Bellanca and A.C. Cino, Comparison between copropagative and counterpropagative non-degenerated cascaded parametric interactions 164 (1999) 307
Barakat, R., see Rao, T.C. 164 (1999) 223
Barbier, D., see Yeatman, E.M. 164 (1999) 19
Bellanca, G., see Baldi, P. 164 (1999) 307
Bennion, I., see Liu, Y. 164 (1999) 27
Beregovski, Y., A. Fardad, H. Luo and M. Fallahi, Single-mode operation of the external cavity DBR laser with sol–gel waveguide Bragg grating 164 (1999) 57
Bernard, D., see Moulin, F. 164 (1999) 137
Bernardo, L.M., see Mas, D. 164 (1999) 233
Blomberg, M., see Sidorin, Y. 164 (1999) 121
Boostrom, T.S., see Clark, B.K. 164 (1999) 145
Borri, P., S. Scaffetti, J. Mørk, W. Langbein, J.M. Hvam, A. Mecozzi and F. Martelli, Measurement and calculation of the critical pulsewidth for gain saturation in semiconductor optical amplifiers 164 (1999) 51
Bryngdahl, O., see Zeggel, T. 164 (1999) 13

Cai, Z.G., see Yu, X.Y. 164 (1999) 177
Cao, Y., see Li, C. 164 (1999) 63
Caron, C.F.R. and R.M. Potvliege, Bessel-modulated Gaussian beams with quadratic radial dependence 164 (1999) 83
Cha, M., see Kim, H.-K. 164 (1999) 77
Chai, B.H.T., see Ye, Q. 164 (1999) 33
Chen, H., see Hu, J. 164 (1999) 219
Chin, A., see Ye, Q. 164 (1999) 33
Cino, A.C., see Baldi, P. 164 (1999) 307
Clark, B.K., J.M. Standard and T.S. Boostrom, Multiple optical pulse propagation and population transfer in molecular vapor 164 (1999) 145
Czarske, J., H. Zellmer and H. Welling, Erratum to "Directional achromatic heterodyne fiber laser Doppler anemometer" [Opt. Commun. 160 (1999) 268–272] 164 (1999) 163

0030-4018/99/● – see front matter © 1999 Elsevier Science B.V. All rights reserved.
PII: S0030-4018(99)00258-8

Dai, D.C., see Yu, X.Y. 164 (1999) 177
Danzmann, K., see Heinzel, G. 164 (1999) 161
De Micheli, M.P., see Baldi, P. 164 (1999) 307
Dumont, M., see El Osman, A. 164 (1999) 277

Eichenholz, J., see Ye, Q. 164 (1999) 33
El Osman, A. and M. Dumont, Measurement of elastooptic properties of organic thin films 164 (1999) 277

Fallahi, M., see Beregovski, Y. 164 (1999) 57
Fardad, A., see Beregovski, Y. 164 (1999) 57
Feng, B., see Zhang, C. 164 (1999) 171
Ferreira, C., see Mas, D. 164 (1999) 233
Fröning, P., see Pedrini, G. 164 (1999) 257

Gabitov, I., see Shaulov, G. 164 (1999) 39
Garcia, J., see Mas, D. 164 (1999) 233
Gastaldo, P., see Yeatman, E.M. 164 (1999) 19
Griebner, U., R. Grunwald and H. Schönnagel, Thermally bonded Yb:YAG planar waveguide laser 164 (1999) 185
Grunwald, R., see Griebner, U. 164 (1999) 185

Ham, B.S., P.R. Hemmer and M.S. Shahriar, Observation of laser-jitter-enhanced hyperfine spectroscopy and two-photon spectral hole-burning 164 (1999) 129
Hammons, D., see Ye, Q. 164 (1999) 33
Haus, J.W., see Shaulov, G. 164 (1999) 39
Heinzel, G., A. Rüdiger, R. Schilling, K. Strain, W. Winkler, J. Mizuno and K. Danzmann, Corrigendum to "Automatic beam alignment in the Garching 30-m prototype of a laser-interferometric gravitational wave detector" [Opt. Commun. 160 (1999) 321–334] 164 (1999) 161
Hemmer, P.R., see Ham, B.S. 164 (1999) 129
Henao, R., see Angel, L. 164 (1999) 247
Hu, J., X. Xu, X. Mu, H. Chen and Z. Shao, Temperature dependence of photorefractive properties of a Cu-doped barium strontium potassium sodium niobate crystal 164 (1999) 219
Hvam, J.M., see Borri, P. 164 (1999) 51

Jain, A., see Yang, K. 164 (1999) 203
Jiang, M., see Liu, J. 164 (1999) 199
Joo, G.-T., see Kim, H.-K. 164 (1999) 77

Karioja, P., see Sidorin, Y. 164 (1999) 121
Kim, H.-K., W. Lee, M. Cha, B.K. Rhee and G.-T. Joo, Measurement of cascaded phase shift in MgO:$LiNbO_3$ single crystal by nonlinear ellipsometric method 164 (1999) 77
Kim, N.S., see Li, C. 164 (1999) 63
Kim, W., see Yang, K. 164 (1999) 203
Konefał, Z., Observation of collision induced processes in rubidium–ethane vapour 164 (1999) 95
Kumar, J., see Yang, K. 164 (1999) 203

Langbein, W., see Borri, P. 164 (1999) 51
Lee, W., see Kim, H.-K. 164 (1999) 77

Li, C., D. Shen, J. Song, Y. Cao, N.S. Kim and K.-i. Ueda, Flash-lamp pumped normal-mode and Q-switched Cr–Tm:YAG laser performance at room temperature 164 (1999) 63
Liu, J., Z. Shao, X. Meng, H. Zhang, L. Zhu and M. Jiang, High-power CW Nd:$GdVO_4$ solid-state laser end-pumped by a diode-laser-array 164 (1999) 199
Liu, X., L. Qian and F. Wise, Effect of local phase-mismatch on frequency doubling of high-power femtosecond laser pulses under quasi-phase-matched conditions 164 (1999) 69
Liu, Y., J.A.R. Williams, L. Zhang and I. Bennion, Phase shifted and cascaded long-period fiber gratings 164 (1999) 27
Lü, B., H. Ma and B. Zhang, Propagation properties of cosh-Gaussian beams 164 (1999) 165
Lü, B., S. Luo and B. Zhang, Propagation of flattened Gaussian beams with rectangular symmetry passing through a paraxial optical ABCD system with and without aperture 164 (1999) 1
Luo, H., see Beregovski, Y. 164 (1999) 57
Luo, Q., see Yu, X.Y. 164 (1999) 177
Luo, S., see Lü, B. 164 (1999) 1

Ma, H., see Lü, B. 164 (1999) 165
Marinho, F., see Mas, D. 164 (1999) 233
Martelli, F., see Borri, P. 164 (1999) 51
Mas, D., J. Garcia, C. Ferreira, L.M. Bernardo and F. Marinho, Fast algorithms for free-space diffraction patterns calculation 164 (1999) 233
Mazilu, D., see Torner, L. 164 (1999) 153
McCarthy, O., see Yeatman, E.M. 164 (1999) 19
McDonald, G.S., G.H.C. New and J.P. Woerdman, Excess noise in low Fresnel number unstable resonators 164 (1999) 285
Mecozzi, A., see Borri, P. 164 (1999) 51
Mendoza Santoyo, F., see Pedrini, G. 164 (1999) 257
Meng, X., see Liu, J. 164 (1999) 199
Mihalache, D., see Torner, L. 164 (1999) 153
Miloslavsky, V.K., A. Nahal and L.A. Ageev, Peculiarities of spontaneous gratings formation on the radiative modes under circularly polarized radiation 164 (1999) 269
Mizuno, J., see Heinzel, G. 164 (1999) 161
Mongardien, D., see Yeatman, E.M. 164 (1999) 19
Mørk, J., see Borri, P. 164 (1999) 51
Moronvalle, C., see Yeatman, E.M. 164 (1999) 19
Moulin, F. and D. Bernard, Four-wave interaction in gas and vacuum: definition of a third-order nonlinear effective susceptibility in vacuum: $\chi^{(3)}_{\text{vacuum}}$ 164 (1999) 137
Mu, X., see Hu, J. 164 (1999) 219

Nahal, A., see Miloslavsky, V.K. 164 (1999) 269
New, G.H.C., see McDonald, G.S. 164 (1999) 285
Ninulescu, V., see Yu, X.Y. 164 (1999) 177

Peale, R., see Ye, Q. 164 (1999) 33
Pedrini, G., P. Fröning, H.J. Tiziani and F. Mendoza Santoyo, Shape measurement of microscopic structures using digital holograms 164 (1999) 257
Popyrin, S.L., I.V. Sokolov and A.V. Yurkin, Three-dimensional geometrical analysis and the characteristics of laser generation in a multilobe mirror cavity 164 (1999) 297
Potvliege, R.M., see Caron, C.F.R. 164 (1999) 83

Pruvot, J., see Baldi, P. 164 (1999) 307
Pun, E.Y.B., see Zhan, L. 164 (1999) 7

Qian, L., see Liu, X. 164 (1999) 69

Rao, T.C. and R. Barakat, Plane wave scattering from a cylindrical Helmholtz resonator: Dirichlet case 164 (1999) 223
Rhee, B.K., see Kim, H.-K. 164 (1999) 77
Richardson, M., see Ye, Q. 164 (1999) 33
Roy, R., see Van Wiggeren, G.D. 164 (1999) 107
Rüdiger, A., see Heinzel, G. 164 (1999) 161

Scaffetti, S., see Borri, P. 164 (1999) 51
Schilling, R., see Heinzel, G. 164 (1999) 161
Schönnagel, H., see Griebner, U. 164 (1999) 185
Sennaroglu, A., Efficient continuous-wave operation of a diode-pumped Nd:YVO_4 laser at 1342 nm 164 (1999) 191
Shah, L., see Ye, Q. 164 (1999) 33
Shahriar, M.S., see Ham, B.S. 164 (1999) 129
Shao, Z., see Hu, J. 164 (1999) 219
Shao, Z., see Liu, J. 164 (1999) 199
Shaulov, G., I. Gabitov and J.W. Haus, Pulse dynamics in absorber dominated optical cavities 164 (1999) 39
Shen, D., see Li, C. 164 (1999) 63
Shen, Q. and K.Y. Wong, Improved thermal stability of poled polymers by optimized physical aging process 164 (1999) 47
Sidorin, Y., P. Karioja and M. Blomberg, Novel tunable laser diode arrangement with a micromachined silicon filter: feasibility 164 (1999) 121
Sokolov, I.V., see Popyrin, S.L. 164 (1999) 297
Song, J., see Li, C. 164 (1999) 63
Standard, J.M., see Clark, B.K. 164 (1999) 145
Strain, K., see Heinzel, G. 164 (1999) 161
Sun, Y.Q., see Zhan, L. 164 (1999) 7

Tebaldi, M., see Angel, L. 164 (1999) 247
Tiziani, H.J., see Pedrini, G. 164 (1999) 257
Torner, L., J.P. Torres, D. Artigas, D. Mihalache and D. Mazilu, Soliton content with quadratic nonlinearities 164 (1999) 153
Torres, J.P., see Torner, L. 164 (1999) 153
Tripathy, S., see Yang, K. 164 (1999) 203

Ueda, K.-i., see Li, C. 164 (1999) 63

Vannucci, A., see Yeatman, E.M. 164 (1999) 19
Van Wiggeren, G.D. and R. Roy, High-speed fiber-optic polarization analyzer: measurements of the polarization dynamics of an erbium-doped fiber ring laser 164 (1999) 107

Welling, H., see Czarske, J. 164 (1999) 163
Williams, J.A.R., see Liu, Y. 164 (1999) 27

Winkler, W., see Heinzel, G. 164 (1999) 161
Wise, F., see Liu, X. 164 (1999) 69
Woerdman, J.P., see McDonald, G.S. 164 (1999) 285
Wong, K.Y., see Shen, Q. 164 (1999) 47

Xia, Y.X., see Zhan, L. 164 (1999) 7
Xie, C. and P. Ye, Efficiency and noise performance analysis of four-wave mixing between short optical pulses in semiconductor optical amplifiers 164 (1999) 211
Xu, X., see Hu, J. 164 (1999) 219

Yang, K., W. Kim, A. Jain, J. Kumar and S. Tripathy, Dispersions of the third-order nonlinear optical susceptibilities $\chi^{(3)}_{1111}(\omega;\omega,0,0)$ and $\chi^{(3)}_{2211}(\omega;\omega,0,0)$ of a polydiacetylene film 164 (1999) 203
Ye, P., see Xie, C. 164 (1999) 211
Ye, Q., L. Shah, J. Eichenholz, D. Hammons, R. Peale, M. Richardson, A. Chin and B.H.T. Chai, Investigation of diode-pumped, self-frequency doubled RGB lasers from Nd:YCOB crystals 164 (1999) 33
Yeatman, E.M., M.M. Ahmad, O. McCarthy, A. Vannucci, P. Gastaldo, D. Barbier, D. Mongardien and C. Moronvalle, Optical gain in Er-doped SiO_2–TiO_2 waveguides fabricated by the sol–gel technique 164 (1999) 19
Yu, X.Y., D.C. Dai, Z.G. Cai, Q. Luo, V. Ninulescu and J.Y. Zhou, Coherent population density control by ultra-high repetition rate femtosecond optical pulse pairs for optical switching 164 (1999) 177
Yurkin, A.V., see Popyrin, S.L. 164 (1999) 297

Zeggel, T. and O. Bryngdahl, Relation between grayvalue and noise frequencies in two- and three-level digital halftoning 164 (1999) 13
Zellmer, H., see Czarske, J. 164 (1999) 163
Zhan, L., E.Y.B. Pun, Y.Q. Sun and Y.X. Xia, Experimental studies on the Fourier spectrum due to double-grating diffraction-interference effect under near-coherent illumination 164 (1999) 7
Zhang, B., see Lü, B. 164 (1999) 165
Zhang, B., see Lü, B. 164 (1999) 1
Zhang, C., K. Zhang and B. Feng, Optical wavelet transform of fractal images 164 (1999) 171
Zhang, H., see Liu, J. 164 (1999) 199
Zhang, K., see Zhang, C. 164 (1999) 171
Zhang, L., see Liu, Y. 164 (1999) 27
Zhou, J.Y., see Yu, X.Y. 164 (1999) 177
Zhu, L., see Liu, J. 164 (1999) 199

ELSEVIER

15 June 1999

Optics Communications 164 (1999) 323–325

OPTICS COMMUNICATIONS

Subject index to volume 164

Propagation and scattering

B. Lü, S. Luo and B. Zhang, Propagation of flattened Gaussian beams with rectangular symmetry passing through a paraxial optical ABCD system with and without aperture 1

L. Zhan, E.Y.B. Pun, Y.Q. Sun and Y.X. Xia, Experimental studies on the Fourier spectrum due to double-grating diffraction-interference effect under near-coherent illumination 7

C.F.R. Caron and R.M. Potvliege, Bessel-modulated Gaussian beams with quadratic radial dependence 83

B. Lü, H. Ma and B. Zhang, Propagation properties of cosh-Gaussian beams 165

T.C. Rao and R. Barakat, Plane wave scattering from a cylindrical Helmholtz resonator: Dirichlet case 223

D. Mas, J. Garcia, C. Ferreira, L.M. Bernardo and F. Marinho, Fast algorithms for free-space diffraction patterns calculation 233

Optical information, image formation and analysis, optical computing

T. Zeggel and O. Bryngdahl, Relation between grayvalue and noise frequencies in two- and three-level digital halftoning 13

C. Zhang, K. Zhang and B. Feng, Optical wavelet transform of fractal images 171

L. Angel, M. Tebaldi and R. Henao, Phase stepping in Lau interferometry 247

G. Pedrini, P. Fröning, H.J. Tiziani and F. Mendoza Santoyo, Shape measurement of microscopic structures using digital holograms 257

Optical communications

E.M. Yeatman, M.M. Ahmad, O. McCarthy, A. Vannucci, P. Gastaldo, D. Barbier, D. Mongardien and C. Moronvalle, Optical gain in Er-doped SiO_2–TiO_2 waveguides fabricated by the sol–gel technique 19

0030-4018/99/$ – see front matter © 1999 Elsevier Science B.V. All rights reserved.
PII: S0030-4018(99)00259-X

Y. Liu, J.A.R. Williams, L. Zhang and I. Bennion, Phase shifted and cascaded long-period fiber gratings 27

V.K. Miloslavsky, A. Nahal and L.A. Ageev, Peculiarities of spontaneous gratings formation on the radiative modes under circularly polarized radiation 269

Laser physics and laser sources

Q. Ye, L. Shah, J. Eichenholz, D. Hammons, R. Peale, M. Richardson, A. Chin and B.H.T. Chai, Investigation of diode-pumped, self-frequency doubled RGB lasers from Nd:YCOB crystals 33

G. Shaulov, I. Gabitov and J.W. Haus, Pulse dynamics in absorber dominated optical cavities 39

Q. Shen and K.Y. Wong, Improved thermal stability of poled polymers by optimized physical aging process 47

P. Borri, S. Scaffetti, J. Mørk, W. Langbein, J.M. Hvam, A. Mecozzi and F. Martelli, Measurement and calculation of the critical pulsewidth for gain saturation in semiconductor optical amplifiers 51

Y. Beregovski, A. Fardad, H. Luo and M. Fallahi, Single-mode operation of the external cavity DBR laser with sol–gel waveguide Bragg grating 57

C. Li, D. Shen, J. Song, Y. Cao, N.S. Kim and K.-i. Ueda, Flash-lamp pumped normal-mode and Q-switched Cr–Tm:YAG laser performance at room temperature 63

G.D. Van Wiggeren and R. Roy, High-speed fiber-optic polarization analyzer: measurements of the polarization dynamics of an erbium-doped fiber ring laser 107

Y. Sidorin, P. Karioja and M. Blomberg, Novel tunable laser diode arrangement with a micromachined silicon filter: feasibility 121

U. Griebner, R. Grunwald and H. Schönnagel, Thermally bonded Yb:YAG planar waveguide laser 185

A. Sennaroglu, Efficient continuous-wave operation of a diode-pumped Nd:YVO_4 laser at 1342 nm 191

J. Liu, Z. Shao, X. Meng, H. Zhang, L. Zhu and M. Jiang, High-power CW Nd:$GdVO_4$ solid-state laser end-pumped by a diode-laser-array 199

G.S. McDonald, G.H.C. New and J.P. Woerdman, Excess noise in low Fresnel number unstable resonators 285

S.L. Popyrin, I.V. Sokolov and A.V. Yurkin, Three-dimensional geometrical analysis and the characteristics of laser generation in a multilobe mirror cavity 297

Nonlinear optics

X. Liu, L. Qian and F. Wise, Effect of local phase-mismatch on frequency doubling of high-power femtosecond laser pulses under quasi-phase-matched conditions 69

H.-K. Kim, W. Lee, M. Cha, B.K. Rhee and G.-T. Joo, Measurement of cascaded phase shift in $MgO:LiNbO_3$ single crystal by nonlinear ellipsometric method 77

B.S. Ham, P.R. Hemmer and M.S. Shahriar, Observation of laser-jitter-enhanced hyperfine spectroscopy and two-photon spectral hole-burning 129

F. Moulin and D. Bernard, Four-wave interaction in gas and vacuum: definition of a third-order nonlinear effective susceptibility in vacuum: $\chi^{(3)}_{\text{vacuum}}$ 137

B.K. Clark, J.M. Standard and T.S. Boostrom, Multiple optical pulse propagation and population transfer in molecular vapor 145

L. Torner, J.P. Torres, D. Artigas, D. Mihalache and D. Mazilu, Soliton content with quadratic nonlinearities 153

K. Yang, W. Kim, A. Jain, J. Kumar and S. Tripathy, Dispersions of the third-order nonlinear optical susceptibilities $\chi^{(3)}_{1111}(\omega;\omega,0,0)$ and $\chi^{(3)}_{2211}(\omega;\omega,0,0)$ of a polydiacetylene film 203

C. Xie and P. Ye, Efficiency and noise performance analysis of four-wave mixing between short optical pulses in semiconductor optical amplifiers 211

J. Hu, X. Xu, X. Mu, H. Chen and Z. Shao, Temperature dependence of photorefractive properties of a Cu-doped barium strontium potassium sodium niobate crystal 219

P. Baldi, J. Pruvot, M.P. De Micheli, G. Bellanca and A.C. Cino, Comparison between copropagative and counterpropagative non-degenerated cascaded parametric interactions 307

Atomic and molecular physics

Z. Konefał, Observation of collision induced processes in rubidium–ethane vapour 95

X.Y. Yu, D.C. Dai, Z.G. Cai, Q. Luo, V. Ninulescu and J.Y. Zhou, Coherent population density control by ultra-high repetition rate femtosecond optical pulse pairs for optical switching 177

Errata

G. Heinzel, A. Rüdiger, R. Schilling, K. Strain, W. Winkler, J. Mizuno and K. Danzmann, Corrigendum to "Automatic beam alignment in the Garching 30-m prototype of a laser-interferometric gravitational wave detector" [Opt. Commun. 160 (1999) 321–334] 161

J. Czarske, H. Zellmer and H. Welling, Erratum to "Directional achromatic heterodyne fiber laser Doppler anemometer" [Opt. Commun. 160 (1999) 268–272] 163

Condensed matter

A. El Osman and M. Dumont, Measurement of elastooptic properties of organic thin films 277